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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/492,307	01/27/2000	Yves Moulart	5453	9722

7590 05/21/2002

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[REDACTED] EXAMINER

AKERS, GEOFFREY R

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

3624

DATE MAILED: 05/21/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/492307	Applicant(s) <i>Moulart</i>
Examiner <i>Akers</i>	Group Art Unit 3624

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE **3** MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication .
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

Responsive to communication(s) filed on **1/27/00**.

This action is **FINAL**.

Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

Claim(s) **1-22** is/are pending in the application.

Of the above claim(s) _____ is/are withdrawn from consideration.

Claim(s) _____ is/are allowed.

Claim(s) **1-22** is/are rejected.

Claim(s) _____ is/are objected to.

Claim(s) _____ are subject to restriction or election requirement.

Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The proposed drawing correction, filed on _____ is approved disapproved.

The drawing(s) filed on _____ is/are objected to by the Examiner.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All Some* None of the CERTIFIED copies of the priority documents have been received.

received in Application No. (Series Code/Serial Number) _____.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

Attachment(s)

Information Disclosure Statement(s), PTO-1449, Paper No(s). _____ Interview Summary, PTO-413

Notice of Reference(s) Cited, PTO-892 Notice of Informal Patent Application, PTO-152

Notice of Draftsperson's Patent Drawing Review, PTO-948 Other _____

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DETAILED ACTION

1. Claims 1-22 have been examined.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-22 are rejected under 35 USC 112(1st paragraph) for failure to specifically

delineate how to enable the applicant's invention and realize the best mode of operation.

Applicant is requested to describe in sufficiently precise detail how the invention is to be utilized in the Figures and Specification beyond what has been submitted.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-22 are further rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, applicant is requested to define the evolution of the mathematical concepts in sufficiently clear detail as to permit one to evaluate what he regards is the disclosure. This includes the precise calculations of the table(5), the nature of the irreversible function(OWF), the calculation of the secret key(K) by algorithmic delineation, the

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calculation of the distinctive sign (Imcr), a first result (O_AC_I) of the irreversible function, processed result (AC_I) of the first algorithm(MAC) together with mathematical description of the secret verification key(SVK) and description of the dynamic parameters(CDP) of the cheque, as well as description of the second iteration transformation, the methodology of the pseudo random estimation by the device (3), the result (AC_I) and the base values S(1)S(k), comparison process of the distinctive sign (Imcr) and a verification in the device(3) of the second result (AC_C), the discussion of the equality condition for acceptance and discussion of the summing conditions for odd or even products of numbers, n,k together with discussion of the digital signature (SIGNcr).Also requested is a discussion of the verification of the authenticity of the certificate by another public key (Pks) as well as the precise mathematical algorithm being employed with discussion of the limitations,assumptions, and applicability of the formulation.

Conclusion

6. **THIS ACTION IS MADE NON FINAL.**

7. Any questions concerning this communication should be addressed to the examiner of record, Dr. Geoffrey Akers, P.E., who can be reached between 6:30 AM and 5:00 PM Monday through Friday at 703-306-5844. If attempts to contact the examiner are unsuccessful, the examiner's superior, Mr. Vincent Millin, SPE, may be telephoned at (703)-308-1065.

The fax number for Formal or Official faxes and Draft or Informal faxes to Technology Center 3600 or this Art Unit is (703)-872-9326 or 9327. Any inquiry of a general nature or

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relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)-308-1113.

GRA

May 15, 2002